



DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

7 14S 14W Russell KS

Maab A #1

Start Date: 2006.11.10 @ 19:34:10

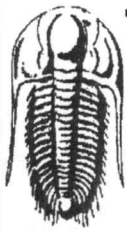
End Date: 2006.11.11 @ 01:04:23

Job Ticket #: 26548 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

Maab A #1

7 14S 14W Russell KS

Job Ticket: 26548

DST#: 1

Test Start: 2006.11.10 @ 19:34:10

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:35:38

Time Test Ended: 01:04:23

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: 2967.00 ft (KB) To 3000.00 ft (KB) (TVD)

Total Depth: 3000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1902.00 ft (KB)

1894.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6769

Inside

Press@RunDepth: 102.21 psig @ 2972.01 ft (KB)

Start Date: 2006.11.10

End Date:

2006.11.11

Start Time: 19:34:10

End Time:

01:04:23

Capacity: 7000.00 psig

Last Calib.: 2006.11.11

Time On Btm: 2006.11.10 @ 21:35:23

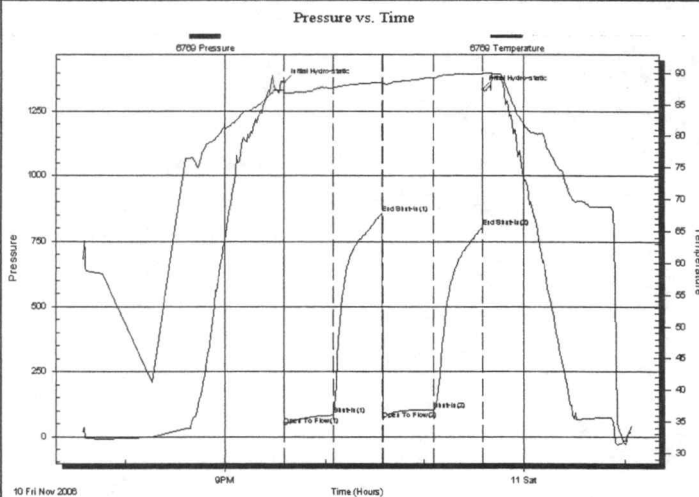
Time Off Btm: 2006.11.10 @ 23:35:08

TEST COMMENT: IFP Weak blow throughout 1/8" - 2"

ISI No blow back

FFP Weak blow throughout weak sur - 1 1/2"

FSI No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1361.75	87.22	Initial Hydro-static
1	42.57	86.81	Open To Flow (1)
30	82.15	87.61	Shut-In (1)
59	857.36	88.47	End Shut-In (1)
60	63.58	88.24	Open To Flow (2)
90	102.21	89.21	Shut-In (2)
120	802.57	89.84	End Shut-In (2)
120	1335.30	89.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSOCM 1%O 99%M	0.56

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

Maab A #1

7 14S 14W Russell KS

Job Ticket: 26548

DST#: 1

Test Start: 2006.11.10 @ 19:34:10

Tool Information

Drill Pipe:	Length: 2977.00 ft	Diameter: 3.80 inches	Volume: 41.76 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	lb
			Total Volume: 41.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	2967.00 ft			Final	lb
Depth to Bottom Packer:	ft				
Interval between Packers:	33.02 ft				
Tool Length:	53.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			2952.00		
Hydraulic tool	5.00			2957.00		
Packer	5.00			2962.00	20.00	Bottom Of Top Packer
Packer	5.00			2967.00		
Stubb	1.00			2968.00		
Perforations	4.00			2972.00		
Recorder	0.01	6769	Inside	2972.01		
Perforations	25.00			2997.01		
Recorder	0.01	13548	Outside	2997.02		
Bullnose	3.00			3000.02	33.02	Bottom Packers & Anchor
Total Tool Length:	53.02					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26548

DST#: 1

ATTN: Bran Hutchinson

Test Start: 2006.11.10 @ 19:34:10

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.91 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	VSOCM 1%O 99%M	0.561

Total Length: 40.00 ft Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

DST Test Number: 1

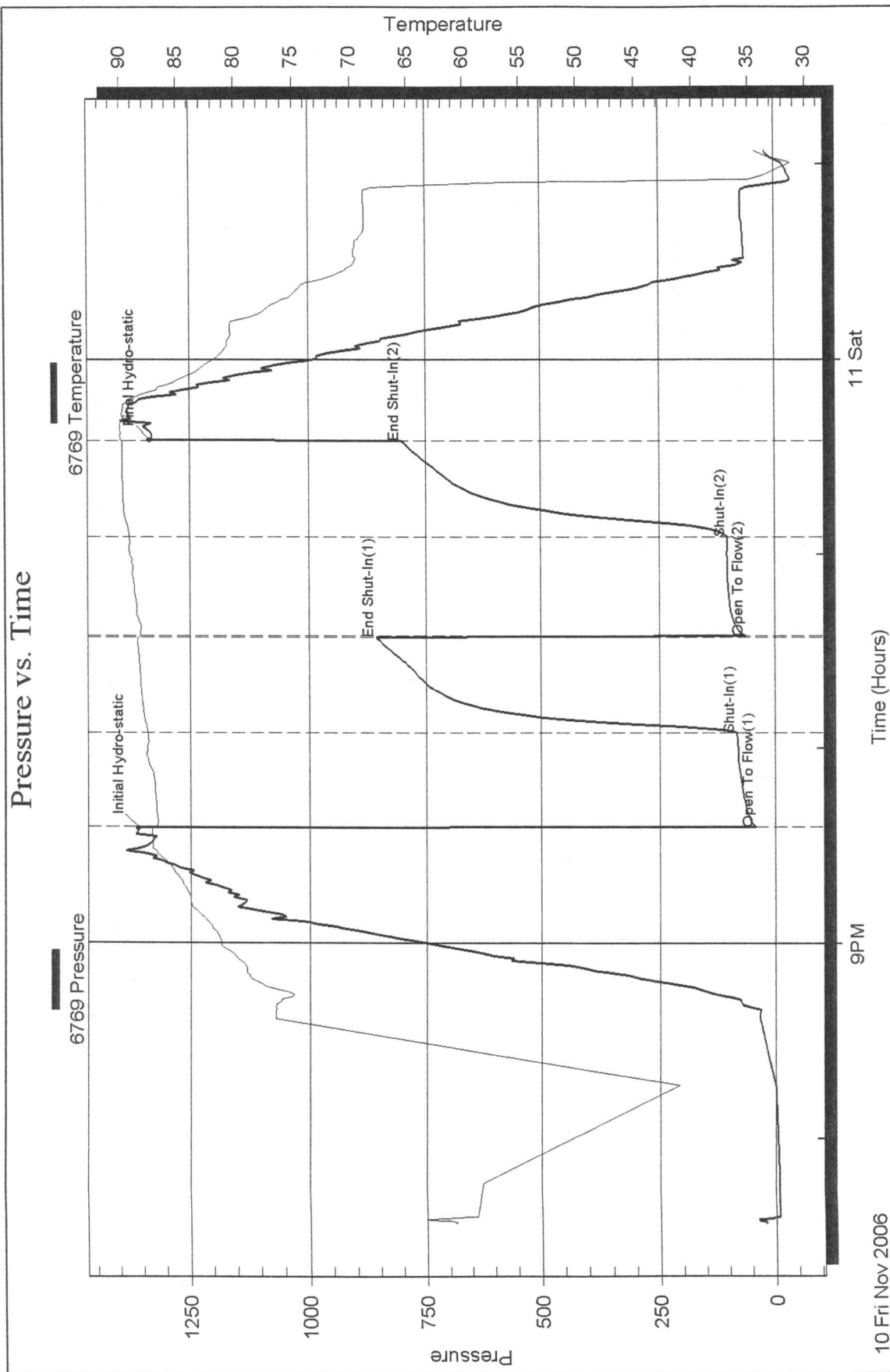
7 14S 14W Russell KS

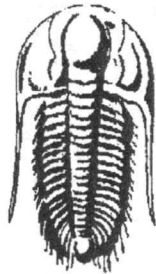
John O Farmer

Inside

Serial #: 6769

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

7 14S 14W Russell KS

Maab A #1

Start Date: 2006.11.11 @ 12:37:53

End Date: 2006.11.11 @ 18:49:36

Job Ticket #: 26549 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26549

DST#: 2

ATTN: Bran Hutchinson

Test Start: 2006.11.11 @ 12:37:53

GENERAL INFORMATION:

Formation: **LKC "A-C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:16:21

Time Test Ended: 18:49:36

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3048.00 ft (KB) To 3125.00 ft (KB) (TVD)**

Total Depth: 3000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1902.00 ft (KB)

1894.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6769

Inside

Press@RunDepth: 117.99 psig @ 3052.01 ft (KB)

Start Date: 2006.11.11

End Date:

2006.11.11

Capacity: 7000.00 psig

Last Calib.: 2006.11.11

Start Time: 12:37:53

End Time:

18:49:36

Time On Btm: 2006.11.11 @ 14:16:06

Time Off Btm: 2006.11.11 @ 17:16:06

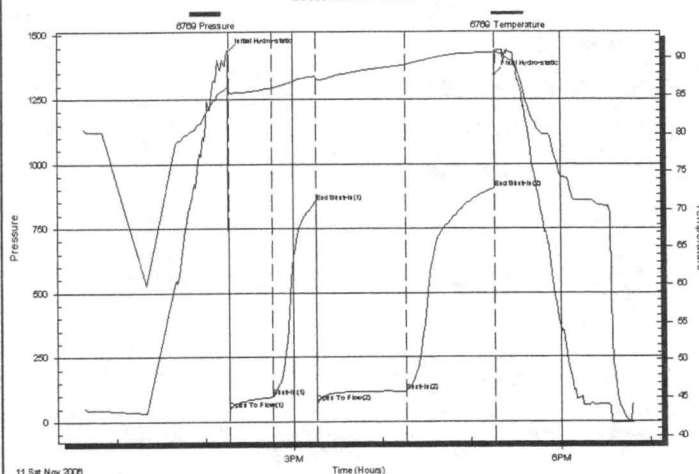
TEST COMMENT: IFP BOB 24 min.

ISI No blow back

FFP BOB 21min.

FSI No blow 10 min w weak sur. blow back 15 min. died

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1435.45	86.12	Initial Hydro-static
1	47.22	85.66	Open To Flow (1)
30	96.51	86.05	Shut-In (1)
60	850.51	87.59	End Shut-In (1)
60	74.61	87.27	Open To Flow (2)
120	117.99	89.09	Shut-In (2)
180	906.60	90.70	End Shut-In (2)
180	1342.12	90.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SOC G&W M 18%G 10%O 2%W 70%M	0.84
30.00	VSOCM 5%G 5%O 90%M	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

ATTN: Bran Hutchinson

Job Ticket: 26549

DST#:2

Test Start: 2006.11.11 @ 12:37:53

Tool Information

Drill Pipe:	Length: 3038.00 ft	Diameter: 3.80 inches	Volume: 42.62 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	63000.00 lb
			Total Volume: 42.62 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3048.00 ft			Final	44500.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	77.02 ft				
Tool Length:	97.02 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:
TOOL WAS PLUGGED

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3033.00	
Hydraulic tool	5.00			3038.00	
Packer	5.00			3043.00	20.00 Bottom Of Top Packer
Packer	5.00			3048.00	
Stubb	1.00			3049.00	
Perforations	2.00			3051.00	
Change Over Sub	1.00			3052.00	
Recorder	0.01	6769	Inside	3052.01	
Blank Spacing	64.00			3116.01	
Change Over Sub	1.00			3117.01	
Perforations	5.00			3122.01	
Recorder	0.01	13548	Outside	3122.02	
Bullnose	3.00			3125.02	77.02 Bottom Packers & Anchor

Total Tool Length: 97.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26549

DST#: 2

ATTN: Bran Hutchinson

Test Start: 2006.11.11 @ 12:37:53

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.92 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SOC G&W M 18%G 10%O 2%W 70%M	0.842
30.00	VSOCM 5%G 5%O 90%M	0.421

Total Length: 90.00 ft

Total Volume: 1.263 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 180' GIP

DST Test Number: 2

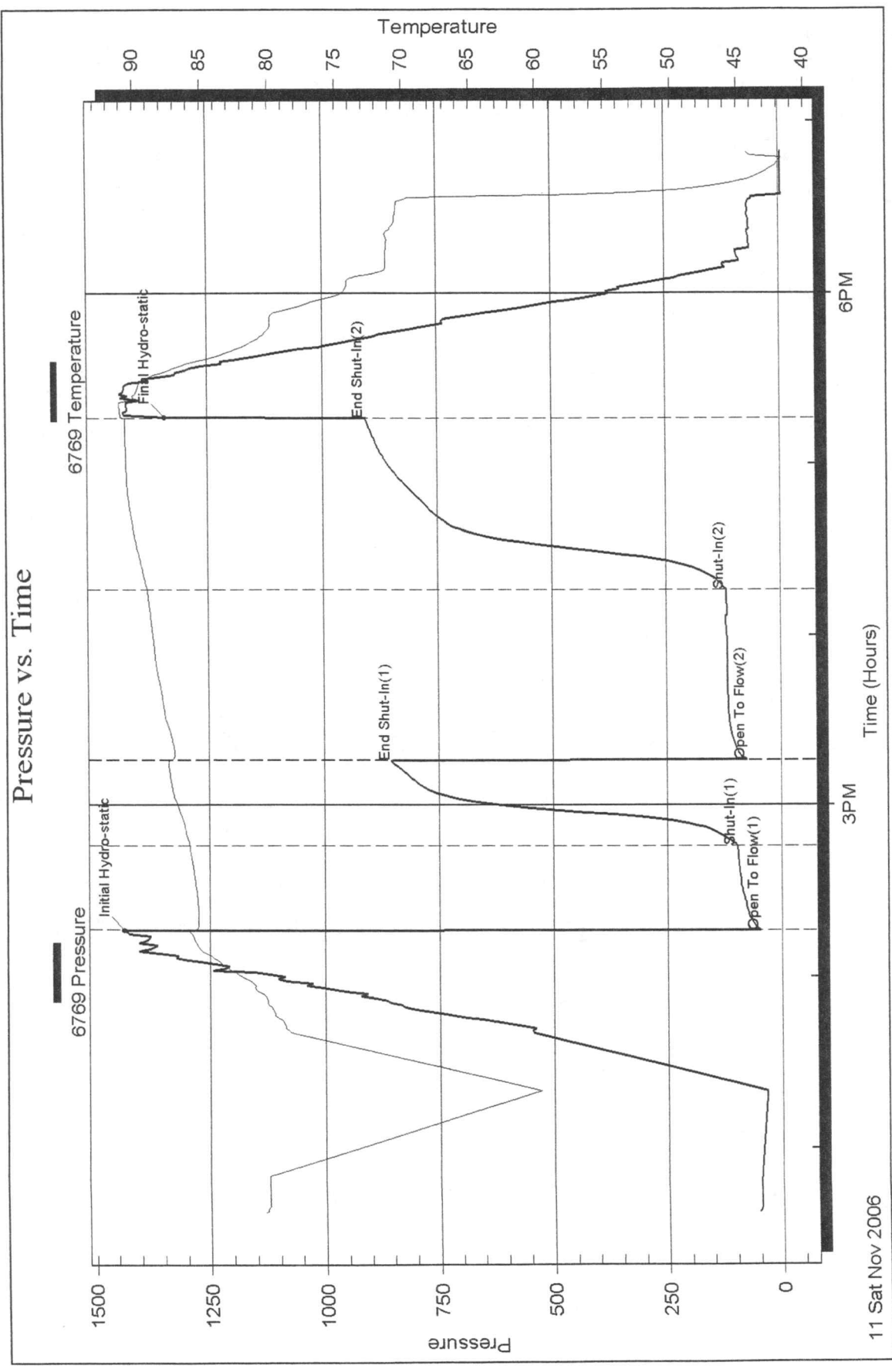
7 14S 14W Russell KS

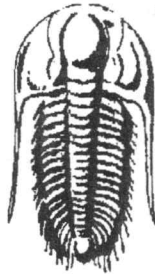
John O Farmer

Inside

Serial #: 6769

Pressure vs. Time





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

7 14S 14W Russell KS

Maab A #1

Start Date: 2006.11.12 @ 02:46:09

End Date: 2006.11.12 @ 09:40:07

Job Ticket #: 26550

DST #: 3

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TRILOBITE
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DRILL STEM TEST REPORT

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26550

DST#: 3

ATTN: Bran Hutchinson

Test Start: 2006.11.12 @ 02:46:09

GENERAL INFORMATION:

Formation: **LKC "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:22:52

Time Test Ended: 09:40:07

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3138.00 ft (KB) To 3180.00 ft (KB) (TVD)**

Total Depth: 3138.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1902.00 ft (KB)

1894.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6769

Inside

Press@RunDepth: 353.60 psig @ 3142.01 ft (KB)

Start Date: 2006.11.12

End Date:

2006.11.12

Capacity: 7000.00 psig

Last Calib.: 2006.11.12

Start Time: 02:46:09

End Time:

09:40:07

Time On Btm: 2006.11.12 @ 04:22:22

Time Off Btm: 2006.11.12 @ 07:22:22

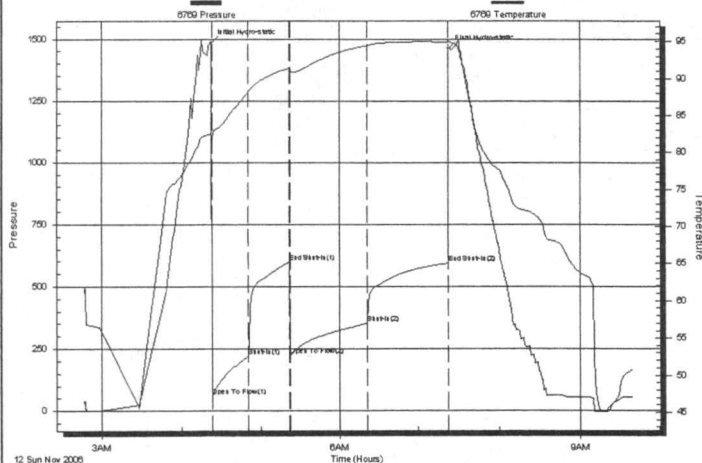
TEST COMMENT: IFP BOB 4 min.

ISI No blow 5 min. weak sur blow back 15 min. died

FFP BOB 6 min.

FSI 7 1/2 " blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1484.05	82.58	Initial Hydro-static
1	60.36	82.15	Open To Flow (1)
29	220.36	88.20	Shut-In(1)
60	597.81	91.37	End Shut-In(1)
61	222.45	91.15	Open To Flow (2)
119	353.60	94.46	Shut-In(2)
180	593.17	94.93	End Shut-In(2)
180	1460.37	95.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
530.00	GMV trace O 15%G 1%O 74%W 10%M 7.43	
60.00	GWM trace O 14%G 1%O 15%W 70%M 0.84	
30.00	GWMO 30%G 62%O 3%W 5%M 0.42	

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26550

DST#: 3

ATTN: Bran Hutchinson

Test Start: 2006.11.12 @ 02:46:09

Tool Information

Drill Pipe:	Length: 3132.00 ft	Diameter: 3.80 inches	Volume: 43.93 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
		Total Volume:	43.93 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3138.00 ft			Final	47000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.02 ft				
Tool Length:	62.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					
Tool was plugged					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3123.00	
Hydraulic tool	5.00			3128.00	
Packer	5.00			3133.00	20.00 Bottom Of Top Packer
Packer	5.00			3138.00	
Stubb	1.00			3139.00	
Perforations	2.00			3141.00	
Change Over Sub	1.00			3142.00	
Recorder	0.01	6769	Inside	3142.01	
Blank Spacing	31.00			3173.01	
Change Over Sub	1.00			3174.01	
Perforations	3.00			3177.01	
Recorder	0.01	13548	Outside	3177.02	
Bullnose	3.00			3180.02	42.02 Bottom Packers & Anchor

Total Tool Length: 62.02



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26550

DST#: 3

ATTN: Bran Hutchinson

Test Start: 2006.11.12 @ 02:46:09

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
530.00	GMW trace O 15%G 1%O 74%W 10%M	7.435
60.00	GWM trace O 14%G 1%O 15%W 70%M	0.842
30.00	GWMO 30%G 62%O 3%W 5%M	0.421

Total Length: 620.00 ft

Total Volume:

8.698 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

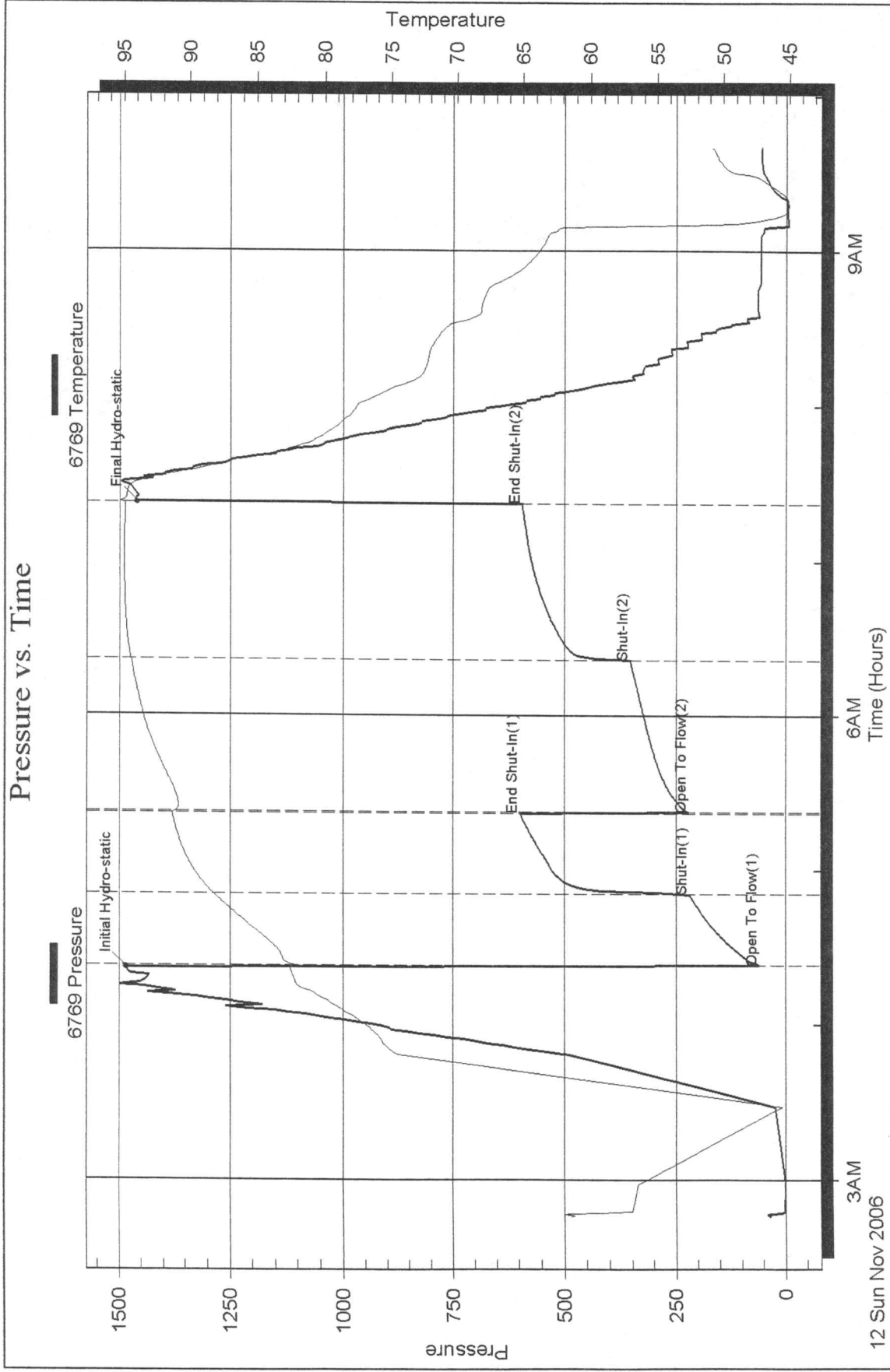
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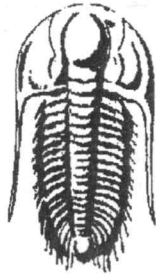
Laboratory Name:

Laboratory Location:

Recovery Comments: 225' GIP

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

7 14S 14W Russell KS

Maab A #1

Start Date: 2006.11.12 @ 18:47:39

End Date: 2006.11.13 @ 00:04:22

Job Ticket #: 26126 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
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DRILL STEM TEST REPORT

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

ATTN: Bran Hutchinson

Job Ticket: 26126

DST#: 4

Test Start: 2006.11.12 @ 18:47:39

GENERAL INFORMATION:

Formation: **LKC "I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:34:52

Time Test Ended: 00:04:22

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3225.00 ft (KB) To 3270.00 ft (KB) (TVD)**

Total Depth: 3270.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1902.00 ft (KB)

1894.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6769

Inside

Press@RunDepth: 71.42 psig @ 3230.01 ft (KB)

Start Date: 2006.11.12

End Date:

2006.11.13

Capacity: 7000.00 psig

Last Calib.: 2006.11.13

Start Time: 18:47:39

End Time:

00:04:22

Time On Btm: 2006.11.12 @ 20:34:37

Time Off Btm: 2006.11.12 @ 22:34:37

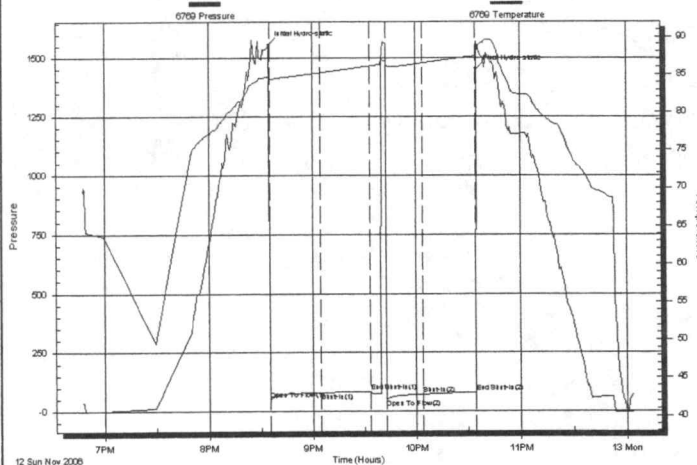
TEST COMMENT: IFP Weak sur blow died 12 min.

ISI No blow back

FFP No blow 5 min. flush tool sur blow 5 min. died

FSI No blow back

Pressure vs. Time



PRESSURE SUMMARY

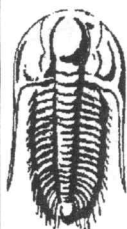
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1557.17	84.59	Initial Hydro-static
1	50.35	84.20	Open To Flow (1)
30	78.45	85.18	Shut-In(1)
59	83.98	86.09	End Shut-In(1)
69	52.00	86.19	Open To Flow (2)
90	71.42	86.48	Shut-In(2)
120	79.00	87.39	End Shut-In(2)
120	1451.58	88.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	100%M	0.04

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26126

DST#: 4

ATTN: Bran Hutchinson

Test Start: 2006.11.12 @ 18:47:39

Tool Information

Drill Pipe:	Length: 3228.00 ft	Diameter: 3.80 inches	Volume: 45.28 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			Total Volume: 45.28 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	45000.00 lb
Depth to Top Packer:	3225.00 ft			Final	45000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	45.02 ft				
Tool Length:	65.02 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3210.00	
Hydraulic tool	5.00			3215.00	
Packer	5.00			3220.00	20.00 Bottom Of Top Packer
Packer	5.00			3225.00	
Stubb	1.00			3226.00	
Perforations	3.00			3229.00	
Change Over Sub	1.00			3230.00	
Recorder	0.01	6769	Inside	3230.01	
Blank Spacing	31.00			3261.01	
Change Over Sub	1.00			3262.01	
Perforations	5.00			3267.01	
Recorder	0.01	13548	Outside	3267.02	
Bullnose	3.00			3270.02	45.02 Bottom Packers & Anchor
Total Tool Length:		65.02			



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26126

DST#: 4

ATTN: Bran Hutchinson

Test Start: 2006.11.12 @ 18:47:39

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 11.35 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	100%M	0.042

Total Length: 3.00 ft

Total Volume: 0.042 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

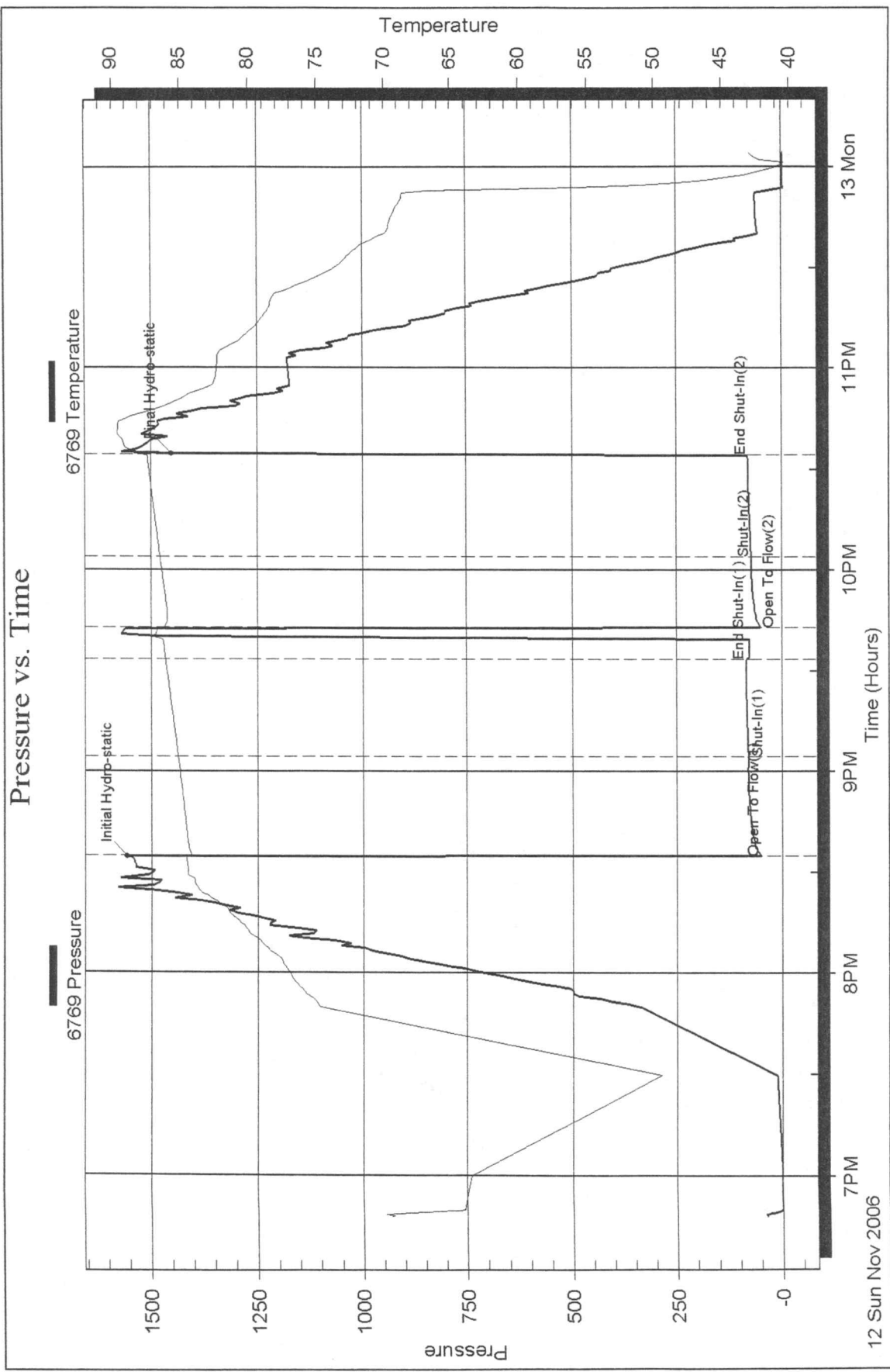
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **John O Farmer**

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

7 14S 14W Russell KS

Maab A #1

Start Date: 2006.11.13 @ 10:14:24

End Date: 2006.11.13 @ 16:50:07

Job Ticket #: 26127

DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

John O Farmer

PO Box 352
Russell KS 67665

ATTN: Bran Hutchinson

Maab A #1

7 14S 14W Russell KS

Job Ticket: 26127

DST#: 5

Test Start: 2006.11.13 @ 10:14:24

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:48:22

Time Test Ended: 16:50:07

Test Type: Conventional Bottom Hole

Tester: Brian Fairbank

Unit No: 24

Interval: **3320.00 ft (KB) To 3338.00 ft (KB) (TVD)**

Total Depth: 3338.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition:

Reference Elevations: 1902.00 ft (KB)

1894.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6769

Inside

Press@RunDepth: 253.52 psig @ 3325.01 ft (KB)

Start Date: 2006.11.13

End Date:

2006.11.13

Capacity: 7000.00 psig

Last Calib.: 2006.11.13

Start Time: 10:14:24

End Time:

16:50:07

Time On Btm:

Time Off Btm: 2006.11.13 @ 14:47:52

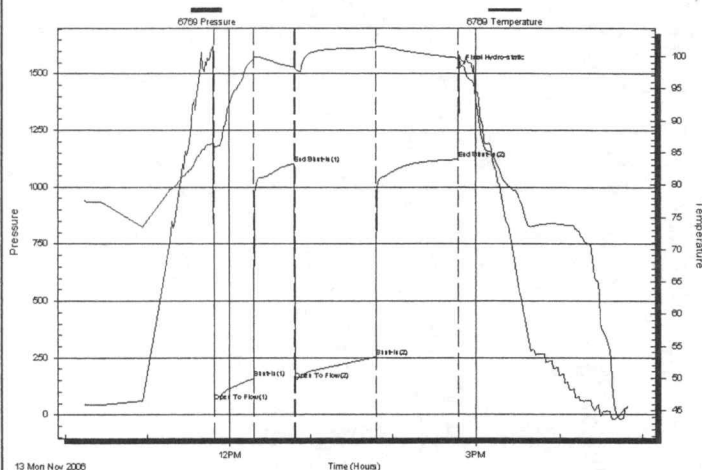
TEST COMMENT: IFP BOB 14 min.

ISI No blow 12 min. sur blow back

FFP BOB 15 min.

FSI Sur blow back died 37 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	58.98	85.87	Open To Flow (1)
30	157.34	99.43	Shut-In(1)
60	1102.93	98.29	End Shut-In(1)
61	148.92	98.03	Open To Flow (2)
120	253.52	101.31	Shut-In(2)
179	1121.63	99.74	End Shut-In(2)
180	1525.05	99.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
435.00	MV 10%M 90%V	6.10
15.00	VSOCWM 3%O 17%W 80%M	0.21
10.00	Free Oil 5%G 90%O 5%M	0.14

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

Job Ticket: 26127

DST#: 5

ATTN: Bran Hutchinson

Test Start: 2006.11.13 @ 10:14:24

Tool Information

Drill Pipe:	Length:	3325.00 ft	Diameter:	3.80 inches	Volume:	46.64 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:	48000.00 lb
					Total Volume:	46.64 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	45000.00 lb
Depth to Top Packer:		3320.00 ft					Final	46000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		18.02 ft						
Tool Length:		38.02 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3305.00	
Hydraulic tool	5.00			3310.00	
Packer	5.00			3315.00	20.00 Bottom Of Top Packer
Packer	5.00			3320.00	
Stubb	1.00			3321.00	
Perforations	4.00			3325.00	
Recorder	0.01	6769	Inside	3325.01	
Perforations	10.00			3335.01	
Recorder	0.01	13548	Outside	3335.02	
Bullnose	3.00			3338.02	18.02 Bottom Packers & Anchor
Total Tool Length:	38.02				



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

John O Farmer

Maab A #1

PO Box 352
Russell KS 67665

7 14S 14W Russell KS

ATTN: Bran Hutchinson

Job Ticket: 26127

DST#: 5

Test Start: 2006.11.13 @ 10:14:24

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 57.00 sec/qt

Water Loss: 9.57 in³

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

32 deg API

19000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
435.00	MW 10%M 90%W	6.102
15.00	VSOCWM 3%O 17%W 80%M	0.210
10.00	Free Oil 5%G 90%O 5%M	0.140

Total Length: 460.00 ft

Total Volume: 6.452 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

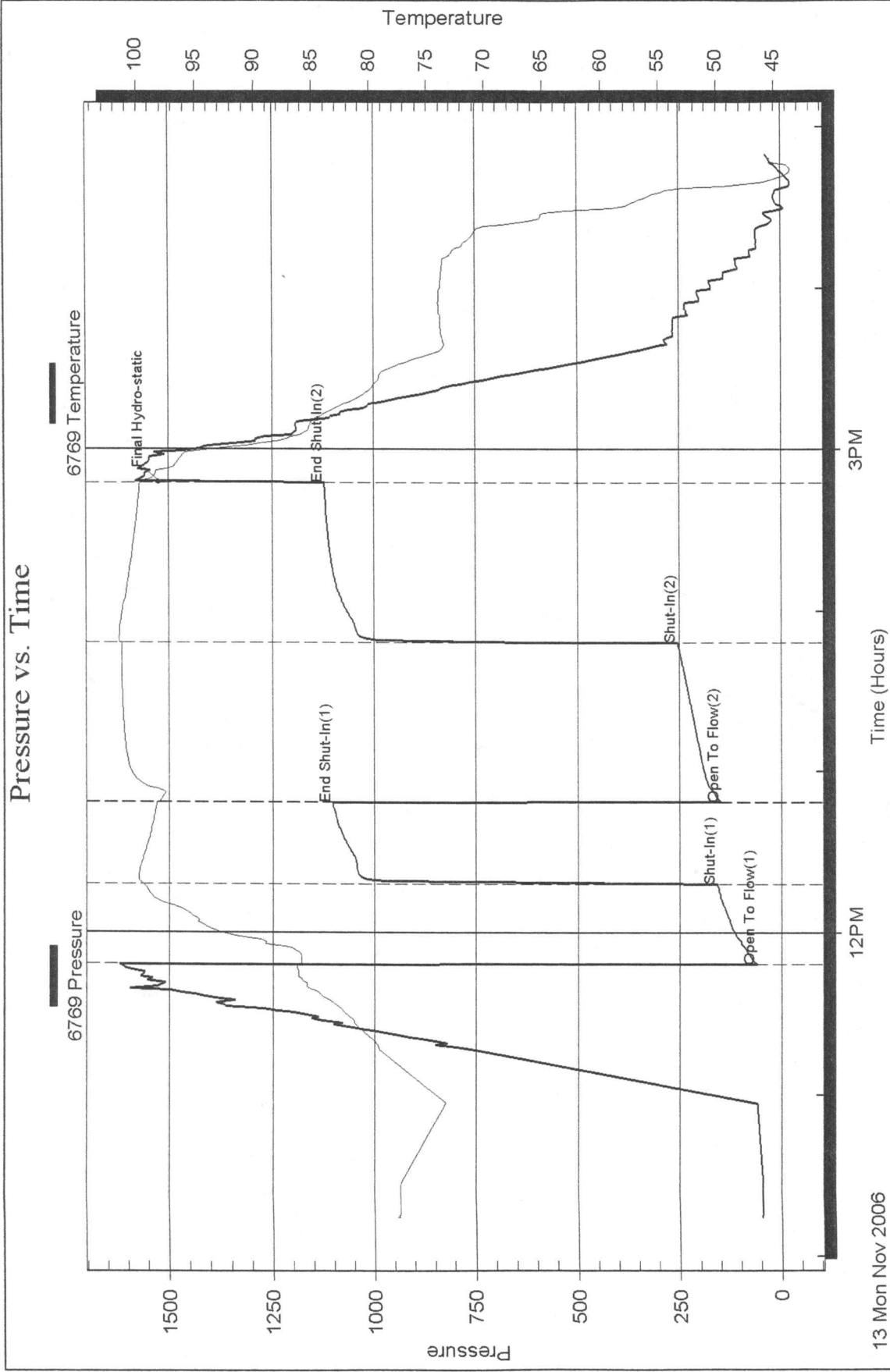
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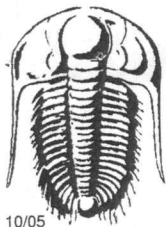
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

9508 26548

Test Ticket

Well Name & No. Maeb A #1 Test No. 1 Date 11-10-06
 Company JOF Zone Tested Tapeks
 Address PO Box 352 Russell, Ks 67665 Elevation 1902 KB 1894 GL
 Co. Rep / Geo. Brod Hutchinson Rig Disc 2
 Location: Sec. 7 Twp. 14^s Rge. 14^w Co. Russell State Ks
 Comment: _____ Release date / time: _____

Interval Tested 2967-3000 Initial Str Wt./Lbs. 42,000 Unseated Str Wt./Lbs. 42,000
 Anchor Length 33 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 48,000
 Top Packer Depth 2962 Tool Weight 2500
 Bottom Packer Depth 2967 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3000 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.0 LCM _____ Vis. 43 WL 10.0 Drill Pipe Size 4 1/2 XM Ft. Run 2977
 Blow Description IFP- weak blow throughout 48-2
ISI- no blow back
FFP- weak blow throughout weak sur- 1 1/2
FSI- no blow back

Recovery - Total Feet 40 GIP _____ Ft. in DC _____ Ft. in DP 40
 Rec. 40 Feet of USACM %gas 1 %oil _____ %water 99 %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud
 BHT 90 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1332	PSI	Recorder No.	<u>6769</u>	Test	<u>4550</u> ✓ <u>1100</u>
(B) First Initial Flow Pressure			<u>43</u>	PSI	(depth)	<u>2972</u>	Jars	_____
(C) First Final Flow Pressure			<u>82</u>	PSI	Recorder No.	<u>13548</u>	Safety Jt.	_____
(D) Initial Shut-In Pressure			<u>857</u>	PSI	(depth)	<u>2997</u>	Circ Sub	_____
(E) Second Initial Flow Pressure			<u>64</u>	PSI	Recorder No.	_____	Sampler	_____
(F) Second Final Flow Pressure			<u>102</u>	PSI	(depth)	_____	Straddle	_____
(G) Final Shut-In Pressure			<u>803</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	_____
(Q) Final Hydrostatic Mud			<u>1343</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	_____
					Final Flow	<u>30</u>	Ruined Packer	_____
					Final Shut-In	<u>30</u>	Mileage	✓ <u>60</u> - <u>48</u>
					T-On Location	<u>1726</u>	Sub Total:	<u>1160</u>
					T-Started	<u>1934</u>	Std. By	_____
					T-Open	<u>2135</u>	Acc. Chg:	_____
					T-Pulled	<u>2335</u>	Other:	_____
					T-Out	<u>0104</u>	Total:	_____

Approved By _____

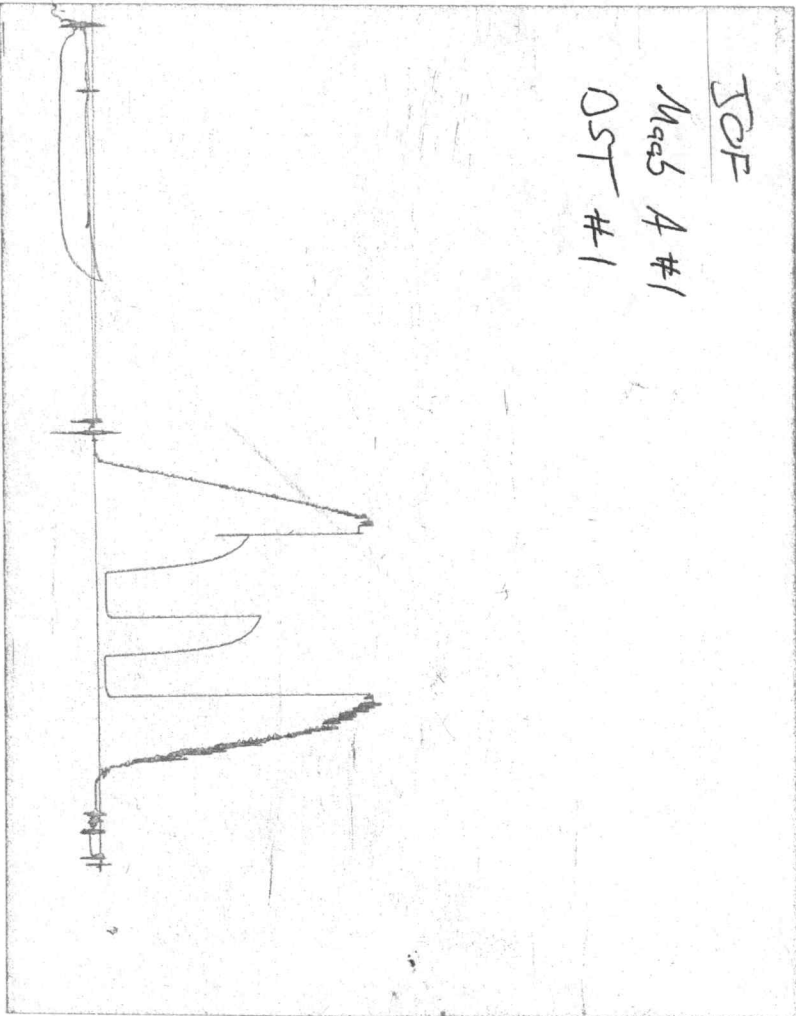
Our Representative

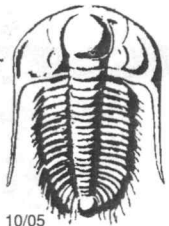
Brian Fairbank (Hanks)

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CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26549

Test Ticket

Well Name & No. Maab A #1 Test No. 2 Date 11-11-06
 Company JO F Zone Tested LKC 'A-C'
 Address P.O. Box 352 Russell, KS 67665 Elevation 1902 KB 1894 GL
 Co. Rep / Geo. Bred Hutchins Rig Disco 2
 Location: Sec. 7 Twp. 14^s Rge. 14^w Co. Russell State KS
 Comment: Tool was plugged Release date / time: _____

Interval Tested 3048-3125 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 44,500
 Anchor Length 77 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 63,000
 Top Packer Depth 3043 Tool Weight 2500
 Bottom Packer Depth 3048 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3125 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 9.3 LCM - Vis. 49 WL 11.0 Drill Pipe Size 4 1/2 XM Ft. Run 3038

Blow Description IFP- BOB 24 min
ISI- no blow back
FFP- BOB 21 min
FSI- no blow 10 min - weak sur blow 15 min - died

Recovery - Total Feet 90 GIP 180 Ft. in DC - Ft. in DP 90
 Rec. 30 Feet of USOCM 5%gas 5%oil %water 90 %mud
 Rec. 60 Feet of BOC G+W M 18%gas 10%oil 2%water 70 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 91 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides TSTM ppm Recovery _____ Chlorides 600 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	1383	PSI	Recorder No.	<u>6749</u>	Test ☒	<u>1100</u>
(B) First Initial Flow Pressure			<u>47</u>	PSI	(depth)	<u>3052</u>	Jars	
(C) First Final Flow Pressure			<u>97</u>	PSI	Recorder No.	<u>13548</u>	Safety Jt.	
(D) Initial Shut-In Pressure			<u>851</u>	PSI	(depth)	<u>3122</u>	Circ Sub	
(E) Second Initial Flow Pressure			<u>75</u>	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure			<u>118</u>	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure			<u>907</u>	PSI	Initial Opening	<u>30</u>	Ext. Packer	
(Q) Final Hydrostatic Mud			<u>1425</u>	PSI	Initial Shut-In	<u>30</u>	Shale Packer	

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Bred Hutchins
 Our Representative Bron Fairbank (Thurs)

Final Flow 60
 Final Shut-In 60
 T-On Location 1153
 T-Started 1237
 T-Open 1416
 T-Pulled 1716
 T-Out 1849
 Ruined Packer _____
 Mileage ☒ 60 - 48
 Sub Total: 1160
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

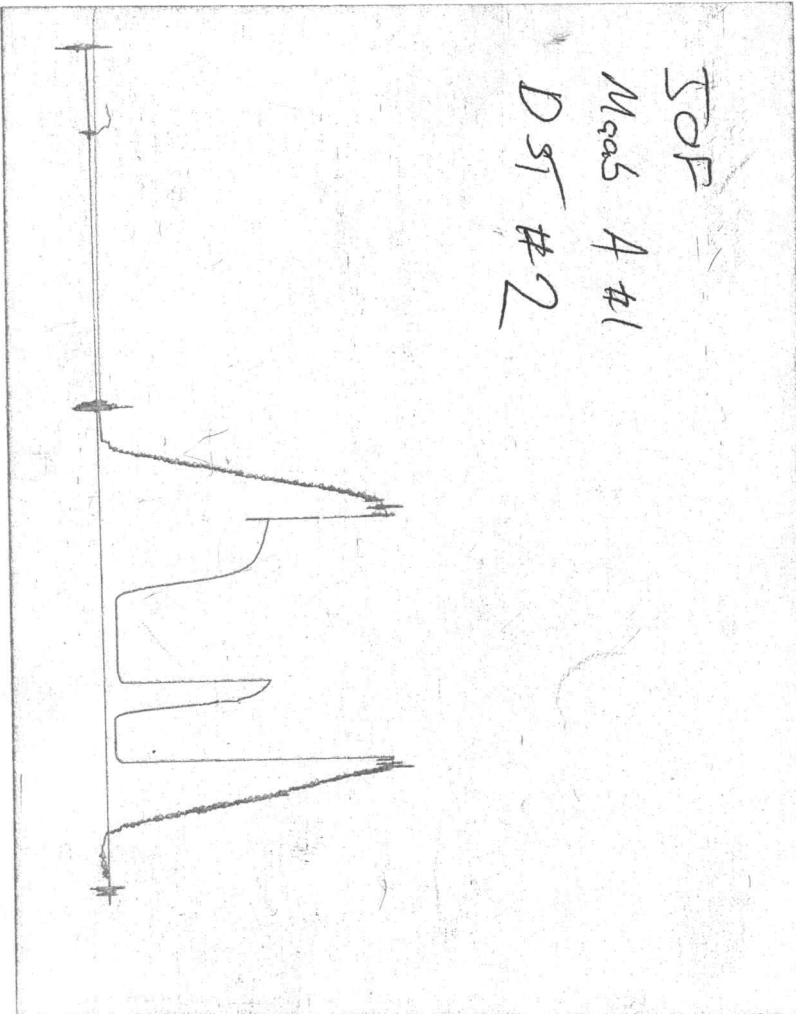
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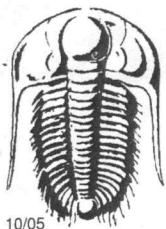
This is a photocopy of the actual AK-1 recorder chart.

50F

Mas A #1

DSF #2





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26550

Test Ticket

Well Name & No. Maab A #1 Test No. 3 Date 11-12-06
 Company JoF Zone Tested LKC "F-G"
 Address PO Box 352 Russell, KS 67665 Elevation 1902 KB 1894 GL
 Co. Rep / Geo. Brad Hutchinson Rig Disco 2
 Location: Sec. 7 Twp. 14S Rge. 14W Co. Russell State Ks
 Comment: Tool was plugged Release date / time: _____

Interval Tested 3138 - 3180 Initial Str Wt./Lbs. 44,000 Unseated Str Wt./Lbs. 47,000
 Anchor Length 42 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3133 Tool Weight 2500
 Bottom Packer Depth 3138 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3180 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 9.3 LCM - Vis. 49 WL 11 Drill Pipe Size 4 1/2 X 4 Ft. Run 3132

Blow Description IFP- BOB 4 min
ISI- no blow 5 min- weak sur blow back 15 min - died
FFP- BOB 6 min
FSI- 7 1/2 blow back

Recovery - Total Feet 620 GIP 225 Ft. in DC - Ft. in DP 620
 Rec. 30 Feet of G WMO 30 %gas 62 %oil 3 %water 5 %mud
 Rec. 60 Feet of GWM Trace 0 14 %gas 1 %oil 15 %water 70 %mud
 Rec. 530 Feet of GWM Trace 0 15 %gas 1 %oil 74 %water 10 %mud
 Rec. - Feet of - %gas - %oil - %water - %mud
 Rec. - Feet of - %gas - %oil - %water - %mud
 BHT 95 °F Gravity 37 °API D @ 40 °F Corrected Gravity 39 °API
 RW 1206 @ 56 °F Chlorides 46,000 ppm Recovery - Chlorides 6000 ppm System

(A) Initial Hydrostatic Mud	AK-1	Alpine	Recorder No.	6769	Test	✓
(B) First Initial Flow Pressure	1436	PSI	(depth)	3142	Jars	
(C) First Final Flow Pressure	60	PSI	Recorder No.	13548	Safety Jt.	
(D) Initial Shut-In Pressure	220	PSI	(depth)	3177	Circ Sub	
(E) Second Initial Flow Pressure	598	PSI	Recorder No.		Sampler	
(F) Second Final Flow Pressure	222	PSI	(depth)		Straddle	
(G) Final Shut-In Pressure	354	PSI	Initial Opening	30	Ext. Packer	
(Q) Final Hydrostatic Mud	593	PSI	Initial Shut-In	30	Shale Packer	
	1465	PSI	Final Flow	60	Ruined Packer	
			Final Shut-In	60	Mileage	✓ 48
			T-On Location	0146	Sub Total:	1160
			T-Started	0246	Std. By	
			T-Open	0422	Acc. Chg:	
			T-Pulled	0722	Other:	
			T-Out	0940	Total:	

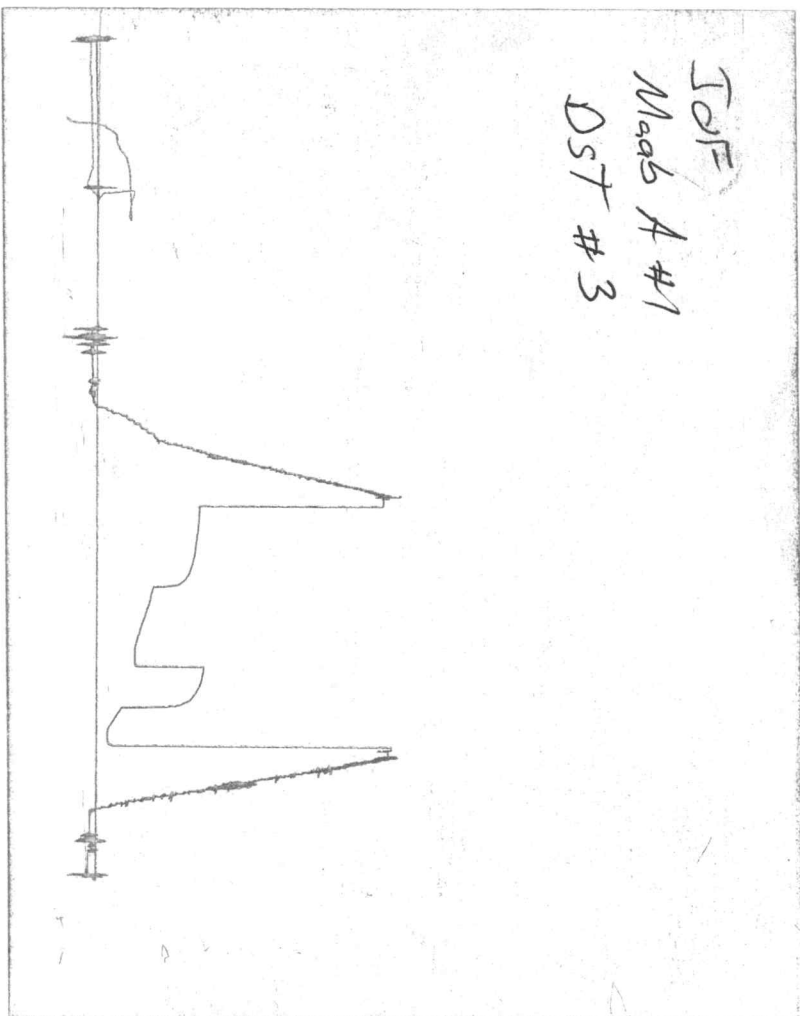
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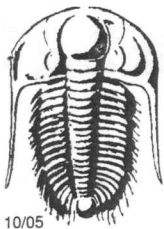
Approved By Brian Fairbank
 Our Representative Brian Fairbank (Hb)

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

IOF
Mab A #1
DST #3





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26126

Test Ticket

Well Name & No. Maab A #1 Test No. 4 Date 11-12-06
 Company JOF Zone Tested LKC "I-J"
 Address P.O. Box 352 Russell, K, 67665 Elevation 1902 KB 1894 GL
 Co. Rep / Geo. Bred Hutchinson Rig Dico 2
 Location: Sec. 7 Twp. 14^s Rge. 14^w Co. Russell State K
 Comment: _____ Release date / time: _____

Interval Tested 3225-3270 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 45 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 55,000
 Top Packer Depth 3220 Tool Weight 2500
 Bottom Packer Depth 3225 Hole Size 7 7/8" Rubber Size 6 3/4"
 Total Depth 3270 Wt. Pipe Run _____ Drill Collar Run _____
 Mud Wt. 9.4 LCM _____ Vis. 51 WL 11.4 Drill Pipe Size 4 1/2 X 4 Ft. Run 3228
 Blow Description IFP- weak sur blow died 12 min
ISI- no blow back
FFP- no blow 5 min- flush tool- sur blow 5 min - died
FSI- no blow back

Recovery - Total Feet 3 GIP _____ Ft. in DC _____ Ft. in DP 3
 Rec. 3 Feet of mud %gas _____ %oil _____ %water 100 %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 Rec. _____ Feet of _____ %gas _____ %oil _____ %water _____ %mud _____
 BHT 87 °F Gravity _____ °API D @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery _____ Chlorides 6000 ppm System

	AK-1	Alpine	Recorder No.	Test
(A) Initial Hydrostatic Mud	<u>1495</u>	PSI	<u>6769</u>	☒
(B) First Initial Flow Pressure	<u>50</u>	PSI	<u>3230</u>	Jars
(C) First Final Flow Pressure	<u>78</u>	PSI	<u>13548</u>	Safety Jt.
(D) Initial Shut-In Pressure	<u>84</u>	PSI	<u>3267</u>	Circ Sub
(E) Second Initial Flow Pressure	<u>52</u>	PSI		Sampler
(F) Second Final Flow Pressure	<u>71</u>	PSI		Straddle
(G) Final Shut-In Pressure	<u>79</u>	PSI	<u>30</u>	Ext. Packer
(Q) Final Hydrostatic Mud	<u>1505</u>	PSI	<u>30</u>	Shale Packer

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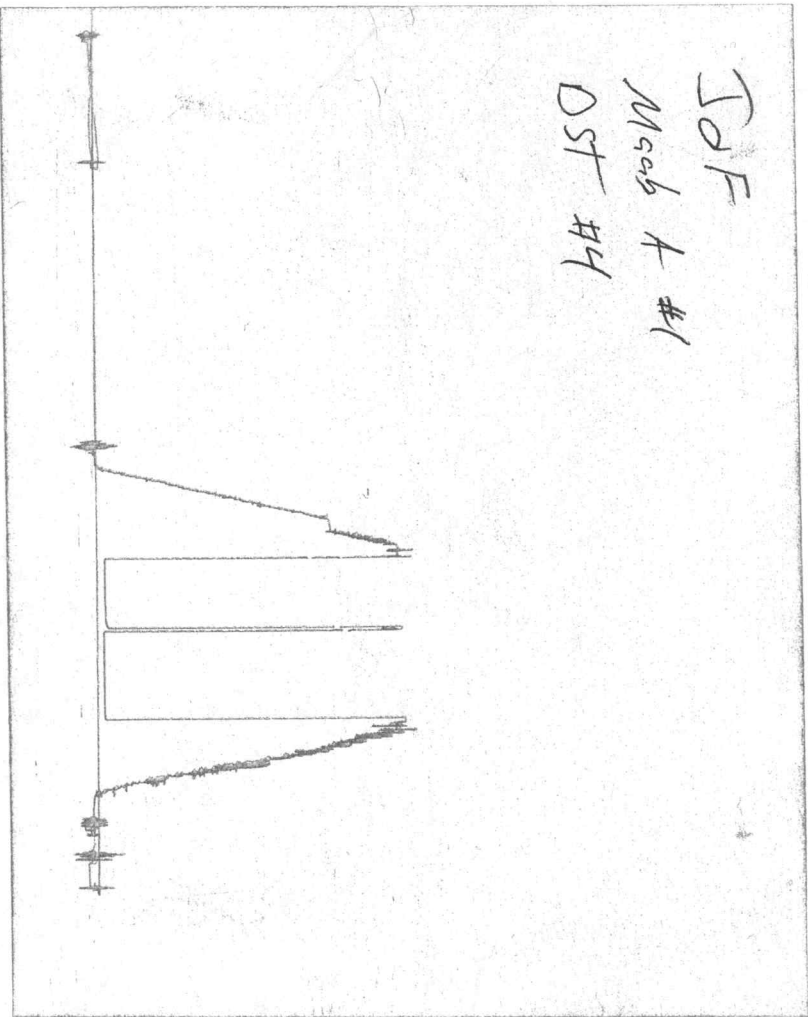
Approved By Brian Fairbank
 Our Representative Brian Fairbank (thb)

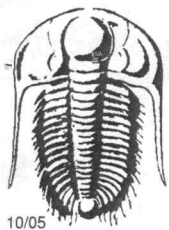
Initial Opening 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30
 T-On Location 1810
 T-Started 1847
 T-Open 2034
 T-Pulled 2234
 T-Out 0004
 Test ☒
 Jars _____
 Safety Jt. _____
 Circ Sub _____
 Sampler _____
 Straddle _____
 Ext. Packer _____
 Shale Packer _____
 Ruined Packer _____
 Mileage ☒ 481
 Sub Total: 1160
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

IOF
Mach 4 #1
OST #4





TRILOBITE TESTING INC.

P.O. Box 362 • Hays, Kansas 67601

26127

Test Ticket

Well Name & No. Maab A #1 Test No. 5 Date 11-13-06
 Company JOF Zone Tested Arbuckle Gopher Sand
 Address PO Box 352 Russell Mo 67665 Elevation 1902 KB 1894 GL
 Co. Rep / Geo. Brad Hutchinson Rig Disco 2
 Location: Sec. 7 Twp. 14^s Rge. 14^w Co. Russell State K
 Comment: _____ Release date / time: _____

Interval Tested 3320 - 3338 Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 46,000
 Anchor Length 18 Wt. Set Lbs. 25,000 Wt. Pulled Loose/Lbs. 48,000
 Top Packer Depth 3315 Tool Weight 2500
 Bottom Packer Depth 3320 Hole Size 7 7/8" - Rubber Size 6 3/4" -
 Total Depth 3338 Wt. Pipe Run - Drill Collar Run -
 Mud Wt. 9.3 LCM - Vis. 57 WL 9.6 Drill Pipe Size 4 1/2 X 4 Ft. Run 3325
 Blow Description IFP- BOB 14 min

ISI- no blow 12 min - sur. blow back

FFP- BOB 15 min

FSI- sur blow back died 37 min

Recovery - Total Feet 460 GIP - Ft. in DC - Ft. in DP 460
 Rec. 10 Feet of Free oil 5 %gas 90%oil %water 5 %mud
 Rec. 15 Feet of USCCWM %gas 3 %oil 17%water 80 %mud
 Rec. 435 Feet of MW %gas %oil 90%water 10 %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 Rec. _____ Feet of _____ %gas %oil %water %mud
 BHT 100 °F Gravity 31 °API D @ 45 °F Corrected Gravity 32 °API
 RW .481 @ 51 °F Chlorides 19,000 ppm Recovery _____ Chlorides 7000 ppm System

AK-1 Alpine
 (A) Initial Hydrostatic Mud 1562 PSI Recorder No. 6769 Test ✓ 1100
 (B) First Initial Flow Pressure 59 PSI (depth) 3325 Jars _____
 (C) First Final Flow Pressure 157 PSI Recorder No. 13548 Safety Jt. _____
 (D) Initial Shut-In Pressure 1103 PSI (depth) 3335 Circ Sub _____
 (E) Second Initial Flow Pressure 149 PSI Recorder No. _____ Sampler _____
 (F) Second Final Flow Pressure 254 PSI (depth) _____ Straddle _____
 (G) Final Shut-In Pressure 1122 PSI Initial Opening 30 Ext. Packer _____
 (Q) Final Hydrostatic Mud 1559 PSI Initial Shut-In 30 Shale Packer _____
 Final Flow 60 Ruined Packer _____
 Final Shut-In 60 Mileage ✓ 60 - 481

TRILOBITE TESTING INC. SHALL NOT BE LIABLE FOR DAMAGED OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By Brian Fairbank
 Our Representative Brian Fairbank (AK-1)

T-On Location 0940
 T-Started 1014
 T-Open 1148
 T-Pulled 1448
 T-Out 1650
 Sub Total: 1160
 Std. By _____
 Acc. Chg: _____
 Other: _____
 Total: _____

CHART PAGE

This is a photocopy of the actual AK-1 recorder chart.

ISOF
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